

REMARKS

Reconsideration of this application, as amended, is respectfully requested.

Claims 1-8, 10-20, 69-88, 137-139, 141-142, and 145 are pending. Claims 1-8, 10-20, 69-88, 137-139, 141-142, and 145 stand rejected.

Claims 1, 3, 4-6, 8, 10, 11-13, 15-20, 69, 71, 76, 80, 82, 85-86, 137-139, 141-142, and 145 have been amended. Claims 7, 9, and 14 have been canceled. Support for the amendments is found in the specification, the drawings, and in the claims as originally filed. Applicants submit that the amendments do not add new matter.

Claim Rejections - 35 U.S.C. § 103

Claims 1-8, 10-20, 69-88, 137-139, 141-142 and 145 stand rejected under 35 U.S.C. § 103 (a) as being unpatentable over U.S. Patent 6,629,138 of Lambert et al. ("Lambert"), in view of U.S. Patent No. 6,546,421 of Wynblatt et al. ("Wynblatt"), and further in view of U.S. Patent No. 6,275,474 of Bushmitch et al. ("Bushmitch").

Applicants respectfully disagree. It is applicants' understanding that the cited references fail to teach or render obvious applicants' invention as set forth in claims 1-8, 10-20, 69-88, 137-139, 141-142 and 145. Applicants have amended claims 1, 3, 12, 69, 71, 80, 137-139, 141-142, and 145 and canceled claims 7, 9, and 14 to more particularly point out and distinctly claim the subject matter, which applicants regard as the invention.

With respect to claim 1, applicants teach one or more RTP extensions associated with streaming media data, wherein each of the RTP extensions is a sub-extension in an extensible extended RTP header of a packet of the streaming media data and represents a type of data, which is necessary to perform a specific transmission operation for a packet of the stream media data. The one or more RTP extensions may be related or unrelated to each other to

provide one or more related or unrelated pieces of information along with a RTP packet that will aid in providing a good quality streaming media data packet and smooth delivery to a client. (see Specification p.19, line 22 to p.20; line 6; p. 23, line 16- 20;) Requesting, transmitting, and receiving one or more related or unrelated RTP sub-extensions of the extended extensible header of a packet of the stream media data that is necessary to perform a specific transmission operation for the packet of the stream media data provides smooth delivery of the packet (see Specification p. 28, lines 6-10; p. 29, line 16 to p. 30, line 10; p. 30 lines 14-20; p. 35, lines 14 to p. 36, line 6). The specific transmission operation may be a specific transmit time, thinning the frames of the data, finding the lost packets, secure or encrypted authenticated communication (see, e.g. Specification, p. 24 line 7- p.25 line 6; p.27, lines 10-16). For example, transmit time data, which is incorporated into the sub-extension of the extensible extended RTP header, may be associated with each track of streaming media data (see Specification, p.27, lines 19-20).

Amended claim 1 reads as follows:

A method of producing a representation of a streaming media data at a caching proxy server, said method comprising:

transmitting a request for streaming media data to be delivered to said caching proxy server;

transmitting a request for one or more Real-Time Protocol ("RTP") extensions associated with said streaming media data, wherein each of said one or more RTP extensions represents a type of related or unrelated data that is necessary for performing a particular transmission operation for a packet of said streaming media data;

receiving said streaming media data and storing said streaming media data on a storage device which is capable of being controlled by said caching proxy server; and receiving said one or more RTP extensions associated with said streaming media data, wherein each of said one or more RTP extensions is a sub-extension in an extensible extended RTP header of the packet of said streaming media data.

(Amended claim 1) (emphasis added)

It is respectfully submitted that neither Lambert, Wynblatt, or Bushmitch discloses, teaches, or suggests one or more RTP extensions associated with said streaming media data,

wherein each of said one or more RTP extensions represents a type of related or unrelated data that is necessary for performing a particular transmission operation for a packet of the streaming media data, wherein each of said one or more RTP extensions is a sub-extension in an extensible extended RTP header of the packet of the streaming media data, as recited in amended claim 1.

The Examiner stated that

Bushmitch discloses that the header extension area of the RTP data packet can be used for stream-specific data transmittal (Bushmitch, col. 5, line 15-28).

(p. 14, Office Action 09/24/04)

In fact, Bushmitch discloses a format for a packet (col. 4, line 67- col. 5 line 14), in which the RTP information associated with a packet and needed to transmit a packet, such as payload sequence number and time reference, is incorporated in fields of a header and not in an extension area of the header. The header extension area merely contains a single type of additional information, such as logical SSRC (“synchronization source identifier”) (see Figure 5). More specifically, Bushmitch discloses

The header extension area of the data packet is used to transmit the logical SSRC. The SSRC field of the header portion contains the thread index portion (32-bit) of the Object ID for the sender entity. By setting extension field to one, the header extension area carries the remaining part of the logical SSRC. This remaining part includes the 32-bit IP address of sender entity and the Object ID (64-bit) for receiver entity which is put into the extension header of the data packet. While the above described RTP-based data packets are used for stream-specific data transmittal, application specific standard RTCP messages (as described below) are used for session management, flow control, error correction and other system functions in the media delivery system.

(Bushmitch, col. 5, lines 15-28) (emphasis added)

The part of the reference cited by the Examiner, in fact merely discloses that standard RTCP messages (“reports”), which are not part of the packet of the streaming media data (see Figures 8 and 9 and col. 5, lines 23-24), are used for session management, flow control, error correction and other system functions in the media delivery system specific. Bushmitch

does not disclose, teach, or suggest one or more unrelated types of data ("RTP extensions"), which are necessary to perform a particular transmission operation for a packet of streaming media data, which are sub-extensions in an extension area of an extensible extended RTP header of the packet of the streaming media data, as recited in amended claim 1, such that smooth delivery of the packet is provided. Bushmitch also does not disclose that extensible extended header accommodates various amounts of such RTP sub-extensions depending on a client's condition.

The Examiner stated that neither Lambert, nor Wynblatt discloses a limitation of amended claim 1 of transmitting a request for one or more RTP extensions associated with the streaming media data, wherein each of the one or more RTP extensions represents a type of related or unrelated data that is necessary to perform a particular transmission operation for a packet of the streaming media data, wherein each of the one or more RTP extensions is a sub-extension in an extensible extended RTP header of the packet of the streaming media data .

Hence, neither Lambert, Wynblatt, nor Bushmitch discloses, teaches, or suggests such limitation of amended claim 1.

Consequently, even if Lambert, Wynblatt, and Bushmitch were combined, such a combination would not result in a limitation of amended claim 1 of one or more RTP extensions associated with the streaming media data, wherein each of the one or more RTP extensions represents a type of related or unrelated data that is necessary to perform a particular transmission operation for a packet of the streaming media data, wherein each of the one or more RTP extensions is a sub-extension in an extensible extended RTP header of the packet of the streaming media data.

It is respectfully submitted that Lambert does not teach or suggest a combination with Wynblatt and Bushmitch, Wynblatt does not teach or suggest a combination with Lambert

and Bushmitch, and Bushmitch does not teach or suggest a combination with Lambert and Wynblatt. It would be impermissible hindsight, based on applicants' own disclosure, to combine Lambert, Wynblatt, and Bushmitch. It is submitted that

Therefore, applicants respectfully submit that amended claim 1 is not obvious under 35 U.S.C. § 103(a) over Lambert in view of Wynblatt, and further in view of Bushmitch.

Amended claims 3, 12, 69, 71, 80, 137-139, 141, 142, and 145 contain limitations substantially similar to limitations of amended claim 1. Therefore, applicants respectfully submit that amended claims 3, 12, 69, 71, 80, 137-139, 141, 142, and 145 for at least the same reasons as advanced above, are not obvious under 35 U.S.C § 103(a) over Lambert in view of Wynblatt, and further in view of Bushmitch.

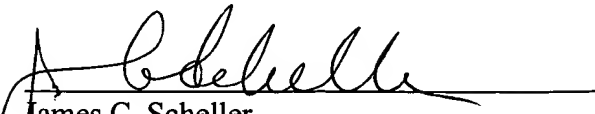
Given that claims 2, 4-8, 10-11, 13-20, 70, 72-79, 81-88 depend, either directly or indirectly, on respective claims 1, 3, 12 and 69, 71, and 80 and add additional limitations, applicants respectfully submit that claims 2, 4-8, 10-11, 13-20, 70, 72-79, 81-88 are likewise not obvious under 35 U.S.C. §103 (a) over Lambert in view of Wynblatt, and further in view of Bushmitch.

It is respectfully submitted that in view of the amendments and arguments set forth herein, the applicable rejections and objections have been overcome. If there are any additional charges, please charge Deposit Account No. 02-2666 for any fee deficiency that may be due.

Respectfully submitted,

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